

## ***Study Guide and Sample Questions for the Wisconsin Water Well Driller and Pump Installer Exams***

The 100 questions on the exams to become a licensed individual water well driller or pump installer are mainly multiple choice with a few true and false questions. Avoid trying to read a hidden meaning into any question. Read the entire question and all possible answers before making your choice. Sometimes the correct answer is the one that includes more than one of the early options. Answer questions based on what is **currently** in the code, not on future changes.

The exams are open book, but that does not mean you can pass without studying. Wisconsin's well and pump installation code is long and complicated. Read the covered sections at least once and use a highlighter or tabs to mark important sections. While the extra study materials sent to you may be useful, you should spend most of your time studying ch. NR 812, Wisconsin Administrative Code. A handy tool for studying is the online version of the rule. The binocular icon allows you to search the code by keyword. Chapter NR 812 can be found online at <http://dnr.wi.gov/topic/DrinkingWater/code.html> Call DNR staff if you have questions.

Following is a list of most subject areas and the reference materials for the exams. On the reverse are sample exam questions.

### **Both Exams**

General Regulations, Licensing Requirements and Approvals (chs. NR 146, NR 811 and NR 812)

Well Location (ch. NR 812)

Water Quality, Disinfection, Sampling and Reporting Requirements (ch. NR 812 and brochures)

Well Filling and Sealing (ch. NR 812)

Hydrogeology (occurrence and movement of groundwater)

### **Pump Installer Exam**

General Private Pump Installation (ch. NR 812) (discharge methods and piping, pumps, pitless adapters, pits, flowing wells, well caps and seals, casing height, cross connection control, pressure tanks and sample taps.)

Existing Well and Pump Installations (ch. NR 812) (existing well location, alcoves, pits, wells in basements, casing height, pump discharge piping, responsibilities for upgrading noncompliance, property transfer well inspections)

Driven Point Well Construction (ch. NR 812)

Municipal Well Pump Installation (ch. NR 811)

High Capacity Pump Installation (ch. NR 812)

### **Water Well Driller Exam**

General Private Well Construction (ch. NR 812) (drillhole depths and diameters; well casing pipe and casing depth; annular space seals and grouting equipment, materials and methods; drilling aids; liners; thermoplastic well casing pipe; flowing wells; rotary mud vs percussion (air rotary or cable tool) construction requirements, well construction requirements based on local geology; and reconstructing existing wells)

High Capacity Wells (ch. NR 812)

Municipal Wells (ch. NR 811)

## Sample Exam Questions

1. Who may legally install a driven point well for potable use in Wisconsin?
  - A. A licensed pump installer
  - B. A property owner, if the well is driven on his own property
  - C. A licensed water well driller
  - D. A Wisconsin licensed master plumber
  - E. All of the above
2. A potable well may be constructed in a floodplain outside the floodway, provided the top of the well casing pipe extends at least two feet above the regional flood elevation at the site.
  - A. True
  - B. False
3. A water sample submitted to a laboratory for bacteriological analysis is tested for:
  - A. All harmful bacteria and viruses
  - B. Coliform bacteria
  - C. Iron bacteria
  - D. Viruses
  - E. A and B
4. Defective well casing pipe:
  - A. May be used if it is properly marked
  - B. Must be reported on the construction report
  - C. May not be used to construct either potable or nonpotable wells
  - D. May only be used when neat cement grout is used to seal the annular space
5. A licensed pump installer completed a pump installation for a new well that serves a tavern. The adapter installed was on the department's list of approved clamp-on adapters. What is the correct statement concerning this installation?
  - A. It meets ch. NR 812 requirements because the clamp-on was installed by a licensed individual.
  - B. It meets ch. NR 812 requirements because the clamp-on model is on the list of approved clamp-on adapters.
  - C. It does not comply with ch. NR 812 requirements because clamp-on adapters may not be installed on wells that serve the public.
  - D. Both A and B.
6. Lengths of well casing pipe may be joined together by using a Dresser coupling and welding both lengths of pipe to the coupling.
  - A. True
  - B. False
7. When evaluating the location of an existing (older) well relative to contamination sources, an inspector must consider the following:
  - A. Minimum required separation distances for new wells
  - B. The date of well construction
  - C. The dates that contamination sources were installed
  - D. A and B
  - E. B and C